Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-07-25-10** **Date: 28-07-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP,
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads at Katteramma temple surrounding area in ward no.10 (Doddabommasandra) Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280,59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
Customer's Reference	:	BBMP/EE/BTP/WO/60/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-07-18
Sample ID No	:	2018-07-25-10 /01
Sample Type	:	ACC 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	26-07-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.59	–
2	Finess by Air permeablity method (m^2/kg,Min)	292.4	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	265 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-07-25-10** **Date: 23-08-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads at Katteramma temple surrounding area in ward no.10 (Doddabommasandra) Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280,59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
Customer's Reference	:	BBMP/EE/BTP/WO/60/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-07-18
Sample ID No	:	2018-07-25-10 /01
Sample Type	:	ACC 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	26-07-18
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-07-25-10** **Date: 28-07-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads at Katteramma temple surrounding area in ward no.10 (Doddabommasandra) Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280,59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
Customer's Reference	:	BBMP/EE/BTP/WO/60/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	25-07-18
Sample ID No	:	2018-07-25-10 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	25-07-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	248	248	1.7	98.3	90-100
3	20 mm	4798	5046	33.6	66.4	30-70
4	10 mm	7512	12558	83.7	16.3	10-35
5	4.75 mm	2195	14753	98.4	1.6	0-5
6	Pan	247	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-07-25-10** **Date: 28-07-18**

Sample ID No : 2018-07-25-10 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.9	
3	Specific Gravity	2.63	_
4	Bulk Density(Loose) (Kg/l)	1.41	_
5	Bulk Density(Compacted) (Kg/l)	1.46	_
6	Water Absorption(%)	0.32	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-07-25-10** **Date: 27-07-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads at Katteramma temple surrounding area in ward no.10 (Doddabommasandra) Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280,59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
Customer Reference	:	BBMP/EE/BTP/WO/60/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-07-18
Sample ID No	:	2018-07-25-10 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	25-07-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	249	249	5.0	95.0	90-100
3	10 mm	2399	2648	53.0	47.0	25-55
4	4.75 mm	2011	4659	93.2	6.8	0-10
5	Pan	341	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-07-25-10** **Date: 27-07-18**

Sample ID No : 2018-07-25-10 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.63	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	9.3	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.43	–
5	Bulk Density(Compacted) (Kg/l)	1.51	–
6	Water Absorption(%)	0.38	–
7	Aggregate crushing Value(%)	23.7	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.5	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2018-07-25-10** **Date: 27-07-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads at Katteramma temple surrounding area in ward no.10 (Doddabommasandra) Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280,59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
Customer's Reference	:	BBMP/EE/BTP/WO/60/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-07-18
Sample ID No	:	2018-07-25-10 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	25-07-18
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	179	200	20.0	80.0	60-95	75-100	85-100	95-100
4	1.18 mm	201	401	40.1	59.9	30-70	55-90	75-100	90-100
5	600 micron	155	556	55.6	44.4	15-34	35-59	60-79	80-100
6	300 micron	193	749	74.9	25.1	5-20	8-30	12-40	15-50
7	150 micron	173	922	92.2	7.8	0-10	0-10	0-10	0-15
8	Pan	78	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2018-07-25-10

Sample ID No : 2018-07-25-10 /03

Date: 27-07-18

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.48	–
2	Specific Gravity	2.57	–
3	Material finer than 75 micron(%)	6.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:

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TEST REPORT ON BITUMEN

Lab ID	:	**CP-2018-08-02-04** **Date: 04-08-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads at Katteramma temple surrounding area in ward no.10 (Doddabommasandra) Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280,59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
Customer's Reference	:	BBMP/EE/BTP/WO/60/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-08-18
Sample ID No	:	2018-08-02-04/01
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test	:	03-08-18

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	**68**	60 to 70
2	Softening Point, °C	**48.2**	Min. 40°C
3	Ductility, cm	**99**	Min. 75cm
4	Flash point, °C	**228.5**	Min. 220°C
	Fire point, °C	**248.5**	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-08-01-06** **Date: 25/04/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads at Katteramma temple surrounding area in ward no.10 (Doddabommasandra) Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, #280,59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

Customer's Reference : BBMP/EE/BTP/WO/60/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-08-18

Sample ID No : 2018-08-01-06 /01

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	18/04/2018	25/04/2018	149.58 X 151.22 X 150.69	22619	8.098	413.9	18.3	18.1
2	Cement Concrete Pavement	M20	18/04/2018	25/04/2018	149.78 X 150.58 X 150.77	22554	8.125	392.4	17.4	
3	Cement Concrete Pavement	M20	18/04/2018	25/04/2018	151.63 X 150.98 X 150.85	22893	8.149	423.5	18.5	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-08-01-06** **Date: 16/05/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads at Katteramma temple surrounding area in ward no.10 (Doddabommasandra) Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, #280,59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

Customer's Reference : BBMP/EE/BTP/WO/60/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-08-18

Sample ID No : 2018-08-01-06 /02

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	18/04/2018	16/05/2018	149.63 X 151.24 X 150.78	22630	8.147	531.8	23.5	23.2
2	Cement Concrete Pavement	M20	18/04/2018	16/05/2018	150.78 X 150.69 X 150.85	22721	8.166	520.3	22.9	
3	Cement Concrete Pavement	M20	18/04/2018	16/05/2018	150.22 X 150.46 X 150.42	22602	8.145	522.1	23.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-08-01-06** **Date: 25/04/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads at Katteramma temple surrounding area in ward no.10 (Doddabommasandra) Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, #280,59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

Customer's Reference : BBMP/EE/BTP/WO/60/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-08-18

Sample ID No : 2018-08-01-06 /01

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	18/04/2018	25/04/2018	151.02 X 150.66 X 150.78	22753	8.146	384.5	16.9	17.7
2	Cement Concrete Pavement	M20	18/04/2018	25/04/2018	150.42 X 150.87 X 150.63	22694	8.135	392.6	17.3	
3	Cement Concrete Pavement	M20	18/04/2018	25/04/2018	150.02 X 151.74 X 150.29	22764	8.174	430.2	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-08-01-06** **Date: 16/05/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads at Katteramma temple surrounding area in ward no.10 (Doddabommasandra) Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, #280,59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

Customer's Reference : BBMP/EE/BTP/WO/60/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-08-18

Sample ID No : 2018-08-01-06 /02

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	18/04/2018	16/05/2018	149.76 X 151.31 X 150.08	22660	8.217	516.7	22.8	22.7
2	Cement Concrete Pavement	M20	18/04/2018	16/05/2018	151.66 X 149.78 X 149.66	22716	8.159	524.7	23.1	
3	Cement Concrete Pavement	M20	18/04/2018	16/05/2018	151.27 X 150.85 X 150.63	22819	8.196	508.9	22.3	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-08-01-06** **Date: 25/04/2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads at Katteramma temple surrounding area in ward no.10 (Doddabommasandra) Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280,59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
Customer's Reference	:	BBMP/EE/BTP/WO/60/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-08-18
Sample ID No	:	2018-08-01-06 /01
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	18/04/2018	25/04/2018	151.66 X 150.74 X 150.85	22861	8.196	418.4	18.3	18.2
2	Cement Concrete Pavement	M20	18/04/2018	25/04/2018	151.99 X 149.63 X 151.47	22742	8.132	395.7	17.4	
3	Cement Concrete Pavement	M20	18/04/2018	25/04/2018	149.63 X 150.85 X 151.86	22572	8.146	426.6	18.9	

Note:
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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-08-01-06**

Date: 16/05/2018

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads at Katteramma temple surrounding area in ward no.10 (Doddabommasandra) Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, #280,59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

Customer's Reference : BBMP/EE/BTP/WO/60/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-08-18

Sample ID No : 2018-08-01-06 /02

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	18/04/2018	16/05/2018	151.02 X 151.85 X 149.86	22932	8.196	529.7	23.1	22.8
2	Cement Concrete Pavement	M20	18/04/2018	16/05/2018	150.75 X 150.19 X 151.37	22641	8.163	516.2	22.8	
3	Cement Concrete Pavement	M20	18/04/2018	16/05/2018	150.97 X 148.99 X 150.52	22493	8.201	508.3	22.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-08-01-06** **Date: 25/04/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads at Katteramma temple surrounding area in ward no.10 (Doddabommasandra) Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, #280,59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

Customer's Reference : BBMP/EE/BTP/WO/60/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-08-18

Sample ID No : 2018-08-01-06 /01

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	18/04/2018	25/04/2018	151.99 X 150.27 X 150.94	22840	8.119	424.8	18.6	18.3
2	Cement Concrete Pavement	M20	18/04/2018	25/04/2018	149.38 X 151.74 X 150.56	22667	8.175	410.3	18.1	
3	Cement Concrete Pavement	M20	18/04/2018	25/04/2018	150.96 X 150.76 X 151.22	22759	8.163	416.5	18.3	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-08-01-06** **Date: 16/05/2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads at Katteramma temple surrounding area in ward no.10 (Doddabommasandra) Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280,59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
Customer's Reference	:	BBMP/EE/BTP/WO/60/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-08-18
Sample ID No	:	2018-08-01-06 /02
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	18/04/2018	16/05/2018	149.77 X 150.97 X 150.38	22611	8.054	495.2	21.9	22.8
2	Cement Concrete Pavement	M20	18/04/2018	16/05/2018	150.96 X 150.29 X 150.46	22688	8.163	510.5	22.5	
3	Cement Concrete Pavement	M20	18/04/2018	16/05/2018	150.41 X 151.16 X 150.77	22736	8.195	543.4	23.9	

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2018-08-06-06**	**Date: 08-08-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to roads at Katteramma temple surrounding area in ward no.10 (Doddabommasandra) Vidyaranyapura Sub Division.	
Agency	:	Executive Engineer, KRIDL, #280,59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010	
Customer Reference	:	BBMP/EE/BTP/WO/60/2018-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	06-08-18	
Sample ID No	:	2018-08-06-06/01	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of test	:	06-08-18	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-08-06-06** **Date: 08-08-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads at Katteramma temple surrounding area in ward no.10 (Doddabommasandra) Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280,59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
Customer Reference	:	BBMP/EE/BTP/WO/60/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-08-18
Sample ID No	:	2018-08-06-06/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	06-08-18

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

Note:-
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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR DENSE BITUMINOUS MACADAM

Lab ID	:	**CP-RW-2018-08-13-03** **Date: 16-08-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads at Katteramma temple surrounding area in ward no.10 (Doddabommasandra) Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280,59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
Customer Reference	:	BBMP/EE/BTP/WO/60/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-08-18
Sample ID No	:	2018-08-13-03/01
Type of Mix	:	DBM (Dense Bituminous Macadam)
Date of test	:	13-08-18

Table 500-6 : Physical Requirements fo Coarse Aggregate for Dense Bituminous Macadam

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	14.1	Combined Flakiness & Elongation Index for DBM is Maximum 35%	IS:2386 Part I
	Elongation Index	13.2		
Strength	Aggregate Impact Value	20.2	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.62	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.88	Maximum 2%	IS:2386 Part III

Note:-

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2018-08-20-02** **Date: 23-08-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads at Katteramma temple surrounding area in ward no.10 (Doddabommasandra) Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280,59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
Customer Reference	:	BBMP/EE/BTP/WO/60/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-08-18
Sample ID No	:	2018-08-20-02/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	20-08-18

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	14.3	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	13.1		
Strength	Aggregate Impact Value	21.0	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.58	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.9	Maximum 2%	IS:2386 Part III

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-08-06-06** **Date: 08-08-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads at Katteramma temple surrounding area in ward no.10 (Doddabommasandra) Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280,59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
Customer Reference	:	BBMP/EE/BTP/WO/60/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-08-18
Sample ID No	:	2018-08-06-06/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	06-08-18
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	3.2	96.9	95-100
22.4	2259	2574	25.7	74.3	60-80
11.2	2179	4753	47.5	52.5	40-60
4.75	2251	7004	70.0	30.0	25-40
2.36	1490	8494	84.9	15.1	15-30
0.6	600	9094	90.9	9.1	8-22
0.075	506	9600	96.0	4.0	0-5

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TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2018-08-13-03** **Date: 15-08-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads at Katteramma temple surrounding area in ward no.10 (Doddabommasandra) Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280,59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
Customer Reference	:	BBMP/EE/BTP/WO/60/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-08-18
Sample ID No	:	2018-08-13-03/01
Type of Mix	:	DBM-Plant (Dense Bituminous Macadam)
Date of test	:	13-08-18
Weight of Sample	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10 (grading -2)
37.5	0	0	0.0	100.0	100
26.5	172	172	3.4	96.6	90-100
19	1013	1185	23.7	76.3	71-95
13.2	520	1705	34.1	65.9	56-80
4.75	1150	2855	57.1	42.9	38-54
2.36	680	3535	70.7	29.3	28-42
0.3	950	4485	89.7	10.3	7-21
0.075	272	4757	95.1	4.9	2-8
PAN	243	5000	0.0	0.0	0

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2018-08-13-03** **Date: 16-08-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads at Katteramma temple surrounding area in ward no.10 (Doddabommasandra) Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280,59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
Customer Reference	:	BBMP/EE/BTP/WO/60/2018-19
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	13-08-18
Sample ID No	:	2018-08-13-03/01
Type of Mix	:	DBM (Dense Bituminous Mecadam)
Date of test	:	13-08-18

The results of the tests conducted on the Dense Bituminous Macadam mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.29	11.82	9KN(Min)
2	Marshal flow at 60°C, mm	3.54	3.87	2-4
3	Percent air Voids	4.56	4.17	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.54	14.76	13-15
5	Percent Voids filled with Bitumen(VFB %)	68.98	70.28	65-75
6	Density, g/cc	2.42	2.40	–

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